

Alternatives to Belden manufacture these data cables are suitable for RS422 and similar applications where high speed data transmissions are required.

The 3 layers of screening ensure excellent protection against electrical interference and cross-talk.

Some sizes available in versions including:
LSZH (low smoke zero halogen) = fire safety
PE (polyethylene) = duct grade
SWA (steel wire armour) = direct burial.

Construction

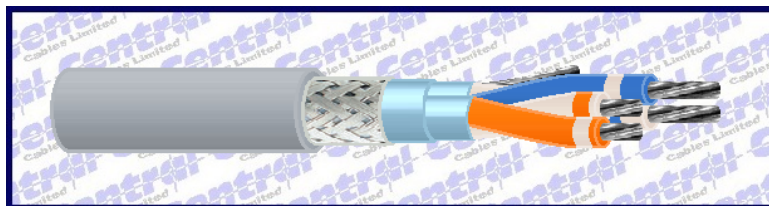
24AWG stranded tinned copper conductors
foam polyolefin (PO) core insulation
cores twisted into pairs
individual and overall aluminium/polyester foil tape screens with tinned copper drain wires
overall tinned copper wire braid (TCWB) screen
grey polyvinylchloride or low smoke & fume (PVC/LSF) outer sheath

Technical

conductor stranding:	7x 0.2mm diameter (0.227mm ² area)
rated voltage:	300V or 600V
capacitance:	41pF/m core/core, 72pF/m core/shield
nominal impedance:	100 Ohms
temperature range:	usually -20°C to +70°C, please check if critical
UL style:	2493
core identification:	coloured according to Western Electric code

Comparable Belden Reference	Number of Pairs	Overall Diameter (mm)	Overall Weight (kg/km)
8162	2	8.7	92
8163	3	9.1	104
8164	4	9.8	121
8166	6	11.3	150
8167	7	11.3	158
8168	8	12.0	177
8170	10	15.0	245

Belden numbers & UL references are provided for cross reference purposes only, please inform us if you require Belden manufacture or UL approved cables.



Comparable Belden Reference	Number of Pairs	Overall Diameter (mm)	Overall Weight (kg/km)
8175	15	17.0	325
8178	18	17.5	354
8185	25	21.0	522

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PVC/LSF Properties: fairly tough & flexible materials resistant to a wide range of oils and chemicals. LSF (low smoke & fume) offers reduced smoke emission compared with standard PVC (polyvinylchloride), however there is no standard governing the hydrogen chloride (HCL) emissions of LSF so it may still be hazardous if burnt.

LSF must not be confused with LSZH (low smoke zero halogen) which guarantees max. 0.5% HCL emissions.

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